What is claimed is:

1. A method for fabricating a resist pattern, comprising the steps of: forming a pre-resist pattern through exposure treatment and development treatment, and

ash-treating the pre-resist pattern to form the resist pattern narrowed.

- 2. A fabricating method as defined in claim 1, wherein the ashing treatment is carried out by using a process gas composed of oxygen gas containing at least one of fluorine-based gas and nitrogen/hydrogen gas mixture.
- 3. A fabricating method as defined in claim 1 or 2, wherein the pre-resist pattern and the resist pattern is composed of a photoresist layer as a top layer and a polymethylglutarimide layer as a bottom layer.
- 4. A fabricating method as defined in claim 3, comprising the steps of: forming the polymethylglutarimide layer on a given base material, forming the photoresist layer on the polymethylglutarimide layer, exposing and developing the photoresist layer via a given mask, partially removing the remaining polymethylglutarinide layer with an alkaline water solution to form the pre-resist pattern, and

ash-treating the pre-resist pattern to the narrowed resist pattern.

- 3. A fabricating method as defined in claim 4, wherein the pre-resist pattern and the resist pattern have their respective T-shaped or reversed trapezoid longitudinal cross sections.
- A fabricating method as defined in claim 1 or 2, wherein the pre-resist pattern and the resist pattern is made of a picture reversion type photoresist which is made by adding a negative working agent to a positive type photoresist including a mixture of alkaline soluble phenol resin and naphtoquinonediazido.
- 7.7 A fabricating method as defined in claim 6, comprising the steps of: coating the picture reversion type photoresist on a given base material, exposing the picture reversion type photoresist via a given mask, heating the picture reversion type photoresist after the exposure treatment, developing the picture reversion type photoresist after the heating treatment to form the pre-resist pattern, and

ash-treating the pre-resist pattern to form the narrowed resist pattern.

8. A fabricating method as defined in claim 7, further comprising the step

of exposing the picture reversion type photoresist uniformly after the heating treatment and before the developing treatment.

- 9. A fabricating method as defined in claim 7, wherein the pre-resist pattern and the resist pattern have their respective T-shaped or reversed trapezoid longitudinal cross sections.
- 10. A fabricating method as defined in claim 1/or 2, wherein the pre-resist pattern and the resist pattern is made of a novolac type positive photoresist containing an additive phenol dissolution accelerator.
- 11. A fabricating method as defined in claim 10, comprising the steps of: coating the novolac type positive photoresist containing the additive phenol dissolution accelerator on a given base material,

exposing via a given mask and developing the novolac type positive photoresist, to form the pre-resist pattern, and

ash-treating the pre-resist pattern to form the narrowed resist pattern.

- 12. A fabricating method as defined in claim 11, wherein the pre-resist pattern and the resist pattern have their respective T-shaped or reversed trapezoid longitudinal cross sections.
- 13. A method for patterning a thin film using a resist pattern as defined in any one of claims 1-12.
 - A method for patterning a thin film, comprising the steps: forming a thin film to be milled on a given base material, forming a polymethylglutarimide layer on the thin film to be milled, forming a photoresist layer on the polymethylglutarimide layer, exposing and developing the photoresist layer via a given mask,

partially removing the remaining polymethylglutarinide layer with an alkaline water solution to form a pre-resist pattern constructed of the photoresist layer as a top layer and the polymethylglutarinide layer as a bottom layer,

ash treating the pre-resist pattern to a narrowed resist pattern, and milling the thin film to be milled via the resist pattern to obtain a patterned thin film.

15. A patterning method as defined in claim 14, wherein the ashing treatment is carried out by using a process gas composed of oxygen gas containing at least one of fluorine-based gas and nitrogen/hydrogen gas mixture.

- 16. A patterning method as defined in claim 14 or 15, wherein the pre-resist pattern and the resist pattern have their respective T-shaped or reversed trapezoid longitudinal cross sections.
 - 17. A method for patterning a thin film, comprising the steps of:
 forming a thin film to be milled on a given base material,

coating on the thin film to be milled a picture reversion type photoresist which is made by adding a negative working agent to a positive type photoresist including a mixture of alkaline soluble phenol resin and naphtoquinonediazido,

exposing the picture reversion type photoresist via a given mask,
heating the picture reversion type photoresist after the exposure treatment,
developing the picture reversion type photoresist after the heating treatment to
form a pre-resist pattern,

ash-treating the pre-resist pattern to form a narrowed resist pattern, and milling the thin film to be milled via the resist pattern to obtain a patterned thin film.

- 18. A patterning method as defined in claim 17, further comprising the step of exposing the picture reversion type photoresist uniformly after the heating treatment and before the developing treatment.
- 19. A patterning method as defined in claim 17 or 18, wherein the ashing treatment is carried out by using a process gas composed of oxygen gas containing at least one of fluorine-based gas and nitrogen/hydrogen gas mixture.
- 20. A patterning method as defined in claim 17 or 18, wherein the pre-resist pattern and the resist pattern have their respective T-shaped or reversed trapezoid longitudinal cross sections
 - 21. A method for patterning a thin film, comprising the steps of: forming a thin film to be milled on a given base material,

coating a novolac type positive photoresist containing an additive phenol dissolution accelerator on the thin film to be milled,

exposing via a given mask and developing the novolac type positive photoresist, to form a pre-resist pattern,

ash-treating the pre-resist pattern to form a narrowed resist pattern, and milling the thin film to be milled via the resist pattern to obtain a patterned thin film.

- 22. A patterning method as defined in claim 21, wherein the ashing treatment is carried out by using a process gas composed of oxygen gas containing at least one of fluorine-based gas and nitrogen/hydrogen gas mixture.
- 23. A patterning method as defined in claim 21 or 22, wherein the pre-resist pattern and the resist pattern have their respective T-shaped or reversed trapezoid longitudinal cross sections.

ash-treating the pre-resist pattern to a narrowed resist pattern,

top layer and the polymethylglutarinide layer as a bottom layer,

forming a thin film to be patterned on the base material so as to cover the resist pattern, and

lifting-off the resist pattern to obtain a patterned thin film.

- 25. A patterning method as defined in claim 24, wherein the ashing treatment is carried out by using a process gas composed of oxygen gas containing at least one of fluorine-based gas and nitrogen/hydrogen gas mixture.
- 26. A patterning method as defined in claim 24 or 25, wherein the pre-resist pattern and the resist pattern have their respective T-shaped or reversed trapezoid longitudinal cross sections.
 - 27. A method for patterning a thin film, comprising the steps of:

coating on a given base material a picture reversion type photoresist which is made by adding a negative working agent to a positive type photoresist including a mixture of alkaline soluble phenol resin and naphtoquinonediazido,

exposing the picture reversion type photoresist via a given mask,
heating the picture reversion type photoresist after the exposure treatment,
developing the picture reversion type photoresist after the heating treatment to
form a pre-resist pattern,

ash-treating the pre-resist pattern to form a narrowed resist pattern, forming a thin film to be patterned on the base material so as to cover the

resist pattern, and

lifting-off the resist pattern to obtain a patterned thin film.

- 28. A patterning method as defined in claim 27, further comprising the step of exposing the picture reversion type photoresist uniformly after the heating treatment and before the developing treatment.
- 29. A patterning method as defined in claim 27 or 28, wherein the ashing treatment is carried out by using a process gas composed of oxygen gas containing at least one of fluorine-based gas and nitrogen/hydrogen gas mixture.
- 30. A patterning method as defined in claim 27 or 28, wherein the pre-resist pattern and the resist pattern have their respective T-shaped or reversed trapezoid longitudinal cross sections.
 - A method for patterning a thin film, comprising the steps of:

dissolution accelerator on a give base material,

exposing via a given mask and developing the novolac type positive photoresist, to form a pre-resist pattern,

ash-treating the pre-resist pattern to form a narrowed resist pattern, forming a thin film to be patterned on the base material so as to cover the resist pattern, and

lifting-off the resist, pattern to obtain a patterned thin film.

- 32. A patterning method as defined in claim 31, wherein the ashing treatment is carried out by using a process gas composed of oxygen gas containing at least one of fluorine-based gas and nitrogen/hydrogen gas mixture.
- 33. A patterning method as defined in claim 31 or 32, wherein the pre-resist pattern and the resist pattern have their respective T-shaped or reversed trapezoid longitudinal cross sections.
- 34. A method for patterning a thin film, comprising the steps of:
 forming a thin film to be milled on a given base material,
 forming a polymethylglutarimide layer on the thin film to be milled,
 forming a photoresist layer on the polymethylglutarimide layer,
 exposing and developing the photoresist layer via a given mask,
 partially removing the remaining polymethylglutarinide layer with an alkaline
 water solution to form a pre-resist pattern constructed of the photoresist layer as a

top layer and the polymethylglutarinide layer as a bottom layer,

ash-treating the pre-resist pattern to a narrowed resist pattern,

milling the thin film to be milled via the resist pattern to form a pre-patterned thin film,

forming a thin film to be patterned on the base material so as to cover the resist pattern, and

lifting-off the resist pattern to obtain a patterned thin film including the prepatterned thin film.

- 35. A patterning method as defined in claim 34, wherein the ashing treatment is carried out by using a process gas composed of oxygen gas containing at least one of fluorine-based gas and nitrogen/hydrogen gas mixture.
- 36. A patterning method as defined in claim 34 or 35, wherein the pre-resist pattern and the resist pattern have their respective T-shaped or reversed trapezoid longitudinal cross sections.
- 37. A method for patterning a thin film, comprising the steps of: forming a thin film to be milled on a given base material,

coating on the thin film to be milled a picture reversion type photoresist which is made by adding a negative working agent to a positive type photoresist including a mixture of alkaline soluble phenol resin and naphtoquinonediazido,

exposing the picture reversion type photoresist via a given mask,

heating the picture reversion type photoresist after the exposure treatment,

developing the picture reversion type photoresist after the heating treatment to form a pre-resist pattern,

ash-treating the pre-resist pattern to form a narrowed resist pattern,

milling the thin film to be milled via the resist pattern to obtain a pre-patterned thin film,

forming a thin film to be patterned on the base material so as to cover the resist pattern, and

lifting-off the resist pattern to obtain a patterned thin film including the prepatterned thin film.

38. A patterning method as defined in claim 37, further comprising the step of exposing the picture reversion type photoresist uniformly after the heating treatment and before the developing treatment.

- 39. A patterning method as defined in claim 37 or 38, wherein the asking treatment is carried out by using a process gas composed of oxygen gas containing at least one of fluorine-based gas and nitrogen/hydrogen gas mixture.
- 40. A patterning method as defined in claim 37 or 38, wherein the pre-resist pattern and the resist pattern have their respective T-shaped or reversed trapezoid longitudinal cross sections.
 - 41. A method for patterning a thin film, comprising the steps of: forming a thin film to be milled on a given base material,

coating a novolac type positive photoresist containing an additive phenol dissolution accelerator on the thin film to be milled,

exposing via a given mask and developing the novolac type positive photoresist, to form a pre-resist pattern,

ash-treating the pre-resist pattern to form a narrowed resist pattern,
milling the thin film to be milled via the resist pattern to obtain a pre-patterned
thin film.

forming a thin film to be patterned on the base material so as to cover the resist pattern, and

lifting-off the resist pattern to obtain a patterned thin film including the prepatterned thin film.

- 42. A patterning method as defined in claim 41, wherein the ashing treatment is carried out by using a process gas composed of oxygen gas containing at least one of fluorine-based gas and nitrogen/hydrogen gas mixture.
- 43. A patterning method as defined in claim 41 or 42, wherein the pre-resist pattern and the resist pattern have their respective T-shaped or reversed trapezoid longitudinal cross sections.
- 44. A method for manufacturing a misro device, using a patterning method for a thin film as defined in any one of claims 13-43.
- 45. A manufacturing method as defined in claim 44, wherein the micro device is a thin film magnetic head.
- 46. A manufacturing method as defined in claim 45, wherein the magnetoresistive effective type thin film element of the thin film magnetic head is manufactured by the patterning method as defined in any one of claims 13-43.